

Introduction to Sports Medicine

Career Cluster	Health Science	
Course Code	14062	
Prerequisite(s)	Recommended: Anatomy and Physiology	
Credit	1	
Program of Study and	Cluster course – Gateway to Certified Nursing Assistant – Introduction to Sports Medicine – other pathway	
Sequence	courses in the Therapeutic Services pathway or capstone experience	
Student Organization	Future Health Professionals (HOSA); Family, Career and Community Leaders of America (FCCLA), or Skills USA	
Coordinating Work-Based	Workplace tours, job shadowing, mentoring, internship	
Learning		
Industry Certifications	First Aid/Cardiopulmonary Resuscitation (CPR)/Automated External Defibrillator (AED)/First Aid	
Teacher Certification	Health Science	
Resources	American College of Sports Medicine http://acsm.org/about-acsm ; My Fitness Pal www.myfitnesspal.com ;	
	Choose MyPlate <u>www.choosemyplate.org</u> , Family, Career and Community Leaders of America (FCCLA) Sports	
	Nutrition STAR event	

Course Description:

The Introduction to Sports Medicine Class is designed for students interested in fields such as athletic training, physical therapy, medicine, fitness, exercise physiology, kinesiology, nutrition and other sports medicine related fields. This class includes both classroom work as well as hands-on application in order to provide students with an avenue to explore these fields. Through these connections students will understand the importance that exercise, nutrition, treatment modalities, and rehabilitation play in athletic health. Students will study basic anatomy and the psychological impact of athletic injuries along with assessment and treatment techniques as they apply to athletic injuries.

Program of Study Application

Introduction to Sports Medicine is a pathway course in the Health Science career cluster, Therapeutic Services pathway. The course would follow participation in one or more cluster courses and/or Gateway to Certified Nursing Assistant. Introduction to Sports Medicine would prepare a student to participate in further pathway courses in the Therapeutic Services pathway or a capstone experience.

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Course Standards

ISM 1 Identify the fundamental aspects of medical terminology, the human body systems, kinesiology and careers related to sports medicine.

Webb Level	Sub-indicator Sub-indicator	Integrated Content
Two	ISM 1.1 Distinguish differences among careers within sports medicine and explain in detail	Careers may include:
Skill/Concept	the education level, credentialing/licensure requirements.	cardiac rehabilitation
		therapist, certified strength
		and conditioning coach,
		personal trainer, lifestyle
		and weight management
		coach, athletic trainer, and
		corporate wellness
		supervisor/instructor.
Two	ISM 1.2 Interpret medical terms and abbreviations to communicate information.	Refer to Joint Commission
Skill/Concept		official "Do Not Use List" in
		terms of using entire word
		rather than abbreviations
		during client
		communication
Level 1: Recall	ISM 1.3 Identify basic structures and functions of human body systems.	Skeletal, muscular,
		integumentary,
		cardiovascular, lymphatic,
		respiratory, nervous,
		special senses, endocrine,
		digestive, urinary, and
Four	ISM 1.4 Analyze concepts of kinesiology in relation to athletic performance.	reproductive How joint and bone
Extended	13W 1.4 Analyze concepts of kinesiology in relation to atmetic performance.	movement, body motion,
Thinking		and levers can have
minking		positive or negative effects
		on an athlete's
		performance and
		development.

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ISM 2 Understand injury prevention principles and performance enhancement philosophies

Webb Level	Sub-indicator Sub-indicator	Integrated Content
Three Strategic Planning	ISM 2.1 Develop a nutrition and hydration plan for an athlete while implementing personal healthy behaviors.	Example: those training for a variety of intensive sporting event, those with cardiac disease, or those being treated for and/or recovering from illness, etc. Use Choose MyPlate, My Fitness Pal or other nutritional plan management tools.
Two Skill/Concept	ISM 2.2 Describe injury prevention	Student journaling, case studies, Compare and contrast injury classifications, promote behaviors of health and wellness (such as: nutrition, weight control, exercise, sleep habits, and prevention of disease)
Two Skill/Concept	ISM 2.3 Explore and demonstrate safe training practices in sports management	Effects of overtraining on the musculoskeletal system, and relate the importance of adopting safe biomechanical practices when training.
Four Extended Thinking	ISM 2.4 Compare and contrast performance enhancement philosophies	General conditioning principles, role of the cardiovascular/respiratory systems and strength training have on fitness/athletic performance, the effects of the environment on training, the importance of flexibility in fitness

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ISM 3 Explore and understand common sports injuries, injury management and treatment techniques.

Webb Level	Sub-indicator Sub-indicator	Integrated Content
Three Strategic Thinking	ISM 3.1 Recognize and explain common injuries and conditions that impact athletic performance.	Explain an injury assessment. Identify soft tissue injuries and skin conditions. Recognize abdominal injuries, bleeding, and shock. Discuss immobilization techniques. Describe treatment for medical conditions such as seizures, fainting, asthma etc., as well as heat illness and cold exposure
Three Strategic Thinking	ISM 3.2 Assess common sports injuries to determine treatment modalities	Identify the purpose and how to properly select the correct therapeutic modality. Describe the physiological effects, indications, contraindications, and application of: cryotherapy, thermotherapy, electrotherapy, and massage.
Four Extended Thinking	ISM 3.3 Perform proper treatment techniques of common sports injuries through hands-on application	Utilize various experiences such as role playing, virtual learning, videos or case studies. Field experience would be highly recommended.

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ISM 4 Explore the psychological impact of injury and the healing process on an individual.

Webb Level	Sub-indicator Sub-indicator	Integrated Content
Level 1: Recall	ISM 4.1 Describe principles of sports psychology.	Identify the psychological implications of an injury to an athlete. Examine potential psychological problems associated with overtraining, including staleness and burnout.
Three Strategic Thinking	ISM 4.2 Explain possible adaptations that can be made to exercise programs to account for different clients' needs.	Given a scenario or profile of a client/patient, develop an exercise program with the following adaptations: immediate effects of exercise, long term effects of exercise (heart/lungs/weight control/disease prevention), effects of acclimatization (such as changes in temperature, altitude, climate, etc.), effects of travel on the client and/or athlete and medications. Modification of the exercise program for post injury for athletes returning to their sport.